LISTING OF THE CLAIMS

Claims 1-16 are pending.

1. (Original) A computer system comprising:

a preloader arranged to,

determine whether a bytecode makes an active reference to a class which requires an execution of a static initializer,

determine if the class has a superclass which requires the execution of the static initializer, wherein the preloader produces a source file;

a compiler coupled to the preloader arranged to accept the source file as input and produce an object file; and

a virtual machine coupled to the compiler arranged to execute the object file.

2. (Original) A computer system according to claim 1 wherein the preloader is further arranged to:

rewrite the bytecode to a new bytecode which indicates that at least one of the class and the superclass requires execution of the static initializer when it is determined that the bytecode makes the active reference to the class which requires the execution of the static initializer.

3. (Original) A computer system according to claim I wherein the preloader is further arranged to:

rewrite the bytecode to a new bytecode which explicitly indicates that at least one of the class and the superclass requires execution of the static initializer when it is determined that the bytecode makes the active reference to the class which requires the execution of the static initializer.

SUN1P802/P5257/SDB/MJF/JFG

4. (Original) A computer system according to claim 1 wherein the preloader is further arranged to:

rewrite the bytecode to a new bytecode which indicates that at least one of the class and the superclass requires execution of the static initializer when it is determined that the bytecode makes the active reference to the class which has the superclass which requires the execution of the static initializer.

5. (Original) A computer system according to claim 1 wherein the preloader is further arranged to:

rewrite the bytecode to a new bytecode which explicitly indicates that at least one of the class and the superclass requires execution of the static initializer when it is determined that the bytecode makes the active reference to the class which has the superclass which requires the execution of the static initializer.

- 6. (Original) A computer system comprising:
- a bytecode rewritter arranged to,

determine whether a bytecode is associated with a scalar field or an object reference field,

rewrite the bytecode to identify the bytecode as being associated with the scalar field when the bytecode is associated with the scalar field,

rewrite the bytecode to identify the bytecode as being associated with the object reference field when the bytecode is associated with the object reference field, wherein the bytecode rewriter is associated with producing a source file;

- a compiler arranged to accept the source file as input and produce an object file; and
- a virtual machine arranged to execute the object file.

- —NO. 780—— −P. 6-

determining whether a bytecode makes an active reference to a class which requires an execution of a static initializer;

determining if the class has a superclass which requires the execution of the static initializer, wherein the preloader produces a source file;

accepting the source file as input and produce an object file by the compiler; and executing the object file by the virtual machine.

8. (Original) A method according to claim 7 further comprising:

rewriting the bytecode to a new bytecode, by the preloader, which indicates that at least one of the class and the superclass requires execution of the static initializer when it is determined that the bytecode makes the active reference to the class which requires the execution of the static initializer.

9. (Original) A method according to claim 7, further comprising:

rewriting the bytecode to a new bytecode, by the preloader, which explicitly indicates that at least one of the class and the superclass requires execution of the static initializer when it is determined that the bytecode makes the active reference to the class which requires the execution of the static initializer.

(Original) A method according to claim 7 further comprising:

rewriting the bytecode to a new bytecode, by the preloader, which indicates that at least one of the class and the superclass requires execution of the static initializer when it is determined that the bytecode makes the active reference to the class which has the superclass which requires the execution of the static initializer.

11. (Original) A. method according to claim 7, further comprising:

rewriting the bytecode to a new bytecode, by the preloader, which explicitly indicates that at least one of the class and the superclass requires execution of the static initializer when it is determined that the bytecode makes the active reference to the class which has the superclass which requires the execution of the static initializer.

12. (Original) A computer program product for rewriting bytecodes to minimize runtime checks in a computer system having a preloader coupled to a compiler and a virtual machine, comprising:

computer code for determining whether a bytecode makes an active reference to a class which requires an execution of a static initializer;

computer code for determining if the class has a superclass which requires the execution of the static initializer, wherein the preloader produces a source file;

computer code for accepting the source file as input and produce an object file by the compiler;

computer code for executing the object file by the virtual machine; and a computer readable medium for storing the computer program product.

- 13. (Original) A computer program product according to claim 12 further comprising: computer code for rewriting the bytecode to a new bytecode, by the preloader, which indicates that at least one of the class and the superclass requires execution of the static initializer when it is determined that the bytecode makes the active reference to the class which requires the execution of the static initializer.
- 14. (Original) A computer program product according to claim 12, further comprising:

computer code for rewriting the bytecode to a new bytecode, by the preloader, which explicitly indicates that at least one of the class and the superclass requires execution of the static initializer when it is determined that the bytecode makes the active reference to the class which requires the execution of the static initializer.

- 15. (Original) A computer program product according to claim 12 further comprising: computer code for rewriting the bytecode to a new bytecode, by the preloader, which indicates that at least one of the class and the superclass requires execution of the static initializer when it is determined that the bytecode makes the active reference to the class which has the superclass which requires the execution of the static initializer.
- 16. (Original) A computer program product according to claim 12, further comprising:

computer code for rewriting the bytecode to a new bytecode, by the preloader, which explicitly indicates that at least one of the class and the superclass requires execution of the static initializer when it is determined that the bytecode makes the active reference to the class which has the superclass which requires the execution of the static initializer.

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:	
	☐ BLACK BORDERS
	☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
	☐ FADED TEXT OR DRAWING
	☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
	☐ SKEWED/SLANTED IMAGES
	☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
	☐ GRAY SCALE DOCUMENTS
-	☐ LINES OR MARKS ON ORIGINAL DOCUMENT
	☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
	Потить

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.